

1 16. (new) A semiconductor light-emitting device comprising:

2 a substrate having a back surface provided with an
3 n-type lower electrode;

4 E1 a light-emitting layer provided on said substrate;

5 a p-type semiconductor layer provided on said
6 light-emitting layer; and

7 an upper electrode provided on said p-type
8 semiconductor layer;

9 wherein said p-type semiconductor layer is a
10 semiconductor layer selected from the group consisting of
11 a ZnSe-based semiconductor layer, a ZnTe-based
12 D semiconductor layer and a BeTe-based semiconductor layer;
13 and

14 wherein said upper electrode includes an Au thin film
15 positioned in contact with said p-type semiconductor layer
16 and an n-type transparent conductor film formed on said Au
17 thin film.

1 17. (new) The semiconductor light-emitting device according to
2 claim 16, wherein said Au thin film has a thickness of 1 nm
3 to 3 nm.
4 E

1 18. (new) The semiconductor light-emitting device according to
2 claim 16, wherein said n-type transparent conductor film is
3 made of In_2O_3 - 10 wt.% ZnO.

1 19. (new) The semiconductor light-emitting device according to
2 claim 18, wherein said transparent conductor film of In_2O_3 -
3 E2

3 10 wt.% ZnO is formed by laser ablation and has
4 characteristics as result from being formed by laser
5 ablation.

1 20. (new) The semiconductor light-emitting device according to
2 claim 16, wherein said Au thin film has a thickness of 2 nm
3 to 3 nm and said n-type transparent conductor film is an
4 In_2O_3 - 10 wt.% ZnO layer having a thickness of 180 nm to
5 200 nm.

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Concl

21. (new) The semiconductor light-emitting device according to
claim 16, wherein said n-type transparent conductor film
has a multilayer structure including an upper layer and a
lower layer, said lower layer having a flattened surface,
and said upper layer having an uneven surface.

22. (new) The semiconductor light-emitting device according to
claim 16, wherein said n-type transparent conductor film
was deposited at room temperature and said device has
characteristics as result from said n-type transparent
conductor film having been deposited at room temperature.

REMARKS:

- 1) All prior claims have been cancelled. New claims 16 to 22 have been submitted for examination in this Continued Prosecution Application. The new claims 16 to 22 are based on subject matter